

# Road Weather Information & Decision Support Systems

Highly accurate, site-specific weather information for road safety and maintenance efficiencies





# Comprehensive road weather solutions

When reliable weather information and forecasts are needed to make the right decisions regarding deployment of vehicles and equipment, personnel, and road treatments, you can't do better than our proven Road Weather Information Systems (RWIS) and Road Decision Support Systems (RoadDSS).

These comprehensive road weather solutions reflect our state-of-the-art technology, from observations to alerting:

- Meteorological observations and pavement sensors — the highest quality available
- Data loggers (RPU's); quality-controlled, compatible communications networks; and information control centers — all to ensure complete, timely, and unaltered transmission of field data
- Atmospheric and pavement forecasting and patented, configurable alerting capabilities

From observations to report delivery, we are the single, accountable provider that streamlines the collection, transmission, processing, and delivery of road weather information, making it accurate, efficient, and cost-effective for our subscribers. Departments of transportation, municipal and county public works, and transportation businesses all depend on our RWIS and RoadDSS systems to help them:

- Make rapid and effective operational decisions
- Reduce weather-related accidents
- Minimize environmental impact
- Increase the overall efficiency of road travel for all users
- Save money through better material and labor management

## Value chain of information

Our RWIS and RoadDSS are complete solutions, comprising:

**Reliable observations and environmental readings.** The effectiveness of operational decisions and the validity of weather forecasts all depend on the quality of data on which they are based. The carefully maintained observation stations providing data for our RWIS and RoadDSS systems rely on the best probes and sensors on the market to capture pavement surface measurements and conditions relevant to an accurate pavement profile.

## Technical expertise

Increasingly, North American transportation operations organizations are relying on our technological expertise to support their staffing and scheduling decisions.

## Number one

In the United States, our temperature and precipitation forecast accuracy has been ranked number one by an independent research group, ForecastWatch.com, for the last eight consecutive years.



Better visualize  
RWIS network data  
trends for post-  
storm analysis and  
decision justification

**Highly accurate pavement and atmospheric forecasts.** In the United States, we lead the industry in temperature and precipitation forecast accuracy, ranked number one by the independent research group ForecastWatch.com, for the last eight consecutive years. Our pavement forecasts reflect road profiles and atmospheric temperatures, precipitation, and cloud cover; are created hourly; and are updated by meteorologists between the hour during rapidly changing conditions — delivering the most current information possible. Our forecasts also can accommodate your own RWIS observations for highly targeted pavement forecasts that factor in micro-scale phenomenon, such as the effects of sun and shade on the roadway's surface.

We continuously research and implement improved forecast methods to ensure that we are providing the most accurate forecasts possible for our clients.

**Forecast verification.** Our experienced meteorologists analyse the historical accuracy of various forecast variables, evaluate prevailing weather dynamics, and edit forecasts as needed for optimum accuracy, for specific locations and time frames.

**Powerful RWIS tools.** We offer comprehensive capabilities to help you better manage your sensors and data. Easily visualize your historical RWIS data to spot trends and improve post-storm analysis with hands-on historical data graphs. Instantly determine the health of your RWIS network with our summary enhancement tools, which allow you to view sensors with errors or data availability issues. Quickly troubleshoot and restore sensor data with customizable RWIS health notifications that alert you when a sensor stops reporting data or throws an error code. All clear notifications can let you know when the problem has been resolved.

# We continuously research and implement improved forecast methods to ensure the most accurate possible forecasts for our clients

## **Easy-to-read presentation and anytime-access to information.**

Observations and forecasts are made available through our renowned WeatherSentry® system, providing users with Web-based access, including via mobile devices, to the real-time observations they specify and forecasts updated each hour. Camera images of RWIS sites, weather radar, and lightning detection are available on a single, flexible-format screen.

## **Automated Alert System** — our Alert Manager®

uses patented technology to issue alerts for the conditions and locations that matter most to you. It can be configured to send alerts via email, mobile phone, and other Internet-enabled devices.

## **Configurable solutions target your needs**

Choose how and when you receive the information you need:

**Maintenance Decision Support System** — uses pavement forecasts, treatment chemical properties, and “rules of practice” to identify the anticipated required road maintenance — including the amount of chemical and duration of treatment. Implement your own rules of practice with more accurate timing. It supports efficient, effective planning and scheduling of resources — significantly reducing chemical costs and the impact on the environment.

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Products mentioned may be covered by one or more of the following patents: U.S. Patent No. 6,753,784, or 7,602,285.

Life Is On



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